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Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. -18. (canceled)

19. (currently amended) A communications device for receiving and transmitting signals, comprising:

a box formed from a plurality of walls and having an interior,
wherein at least a part of a wall of the plurality of walls of said box has a periodic structure formed on an interior wall of said box to filter undesired signal wave propagations through the interior of said box.

20. (canceled)

21. (previously presented) The communications device recited in claim 19, further comprising:

an antenna on the exterior of the box,
wherein a high frequency circuit element is contained in the box and provided with input and output terminals for connection with said antenna.

22. (previously presented) The communications device recited in claim 19, further comprising:

an antenna in the interior of said box,

wherein an orifice to pass radio waves is provided on a wall of the plurality of walls in said box in the vicinity of said antenna.

23. - 24. (canceled)

25. (currently amended) A high frequency receiving device, comprising:
a box having a plurality of walls and containing at least one high frequency circuit element,

wherein at least a part of a wall of said plurality of walls of said box has a periodic structure formed on an interior of the wall of said plurality of walls of said box and has a plurality of protrusions to prevent undesired signal wave propagation of high frequency waves through the interior of said box of the high frequency receiving device.

26. (canceled)

27. (previously presented) The high frequency receiving device according to claim 25, further comprising:

an antenna attached to the outside of said box,

wherein said high frequency circuit element is provided with input and output terminals for connection with said antenna.

28. (previously presented) The high frequency receiving device according to claim 25, further comprising:

an antenna being formed inside said box,

wherein a window for passage of radio waves is provided on a wall of the plurality of walls of said box in the vicinity of said antenna.

29. - 30. (canceled)

31. (currently amended) A high frequency transmitting device, comprising:
a box containing having a plurality of walls and at least one high frequency circuit element,

wherein at least a part of a wall of said plurality of walls of said box has a periodic structure formed on an interior of the wall of said plurality of walls of said box in a periodic pattern of materials or mechanical configurations to provide a filtering function to prevent undesired signal wave propagation of high frequency waves through the interior of said box of said high frequency transmitting device.

32. (canceled)

33. (previously presented) The high frequency transmitting device according to claim 31, further comprising:

an antenna formed outside said box,
wherein said high frequency circuit element is provided with input and output terminals for connection with said antenna.

34. (previously presented) A high frequency transmitting device according to claim 31 which further comprises:

an antenna being formed inside said box,
wherein an orifice for passage of radio waves is provided on a wall of said box in the vicinity of said antenna.

35. - 36. (canceled)

37. (new) A communication device for receiving and transmitting signals, comprising:

a box formed from a metallic base plate, sidewalls and a metallic lid separated from the base plate by the sidewalls;

semiconductors mounted on surface of the metallic base plate, which forms high frequency circuit including a first amplifier inputting signals received from an antenna, a first mixer mixing an output signal of the first amplifier with an output signal from an high frequency signal source, a second mixer mixing an input signal

to be transmitted with an output signal from said high frequency signal source, and a second amplifier inputting an output signal of the second mixer and outputting to the antenna;

wherein at least a part of a ceiling part of the lid facing the inside of the box has a periodic structure to prevent propagation of undesired signal between said high frequency signal source, input side of the first amplifier and output side of the second amplifier.

38. (new) A communication device according to claim 37:

wherein said antenna is formed on the surface of the metallic base plate, and said metallic lid has a window for passing radio wave in vicinity of the plane antenna.